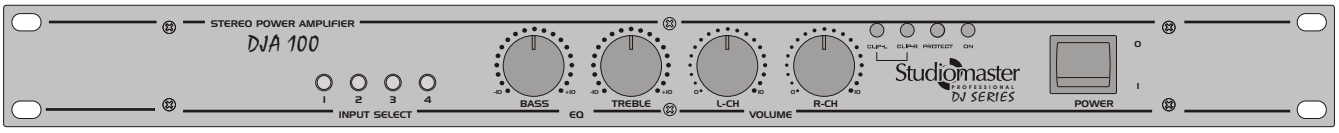
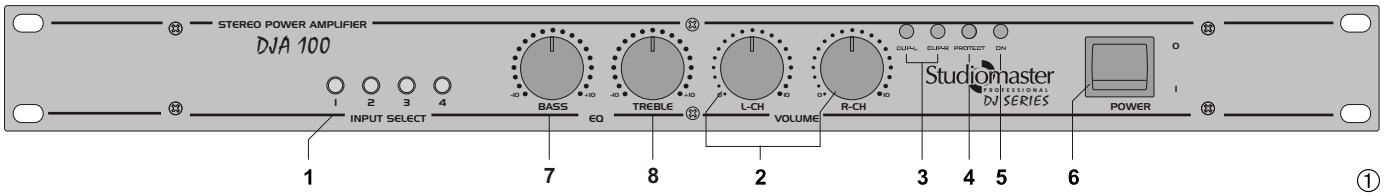
Studiomaster
PROFESSIONAL
DJ SERIES

DJA 100

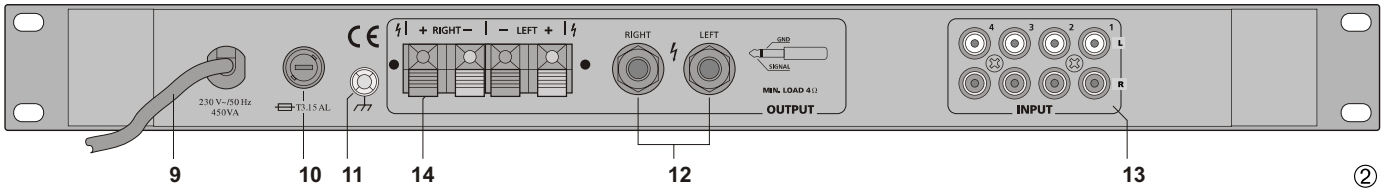


STEREO POWER AMPLIFIER

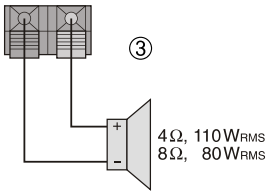
USER MANUAL

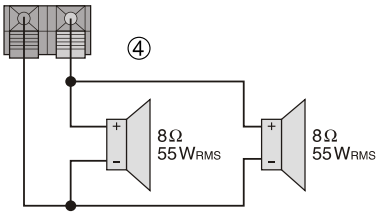

STEREO POWER AMPLIFIER
DJA 100
INPUT SELECT
1
2
3
4
BASS
TREBLE
EQ
L-CH
R-CH
VOLUME
CLIP-L
CLIP-R
PROTECT
ON
Studiomaster
PROFESSIONAL
DJ SERIES
POWER
O
I
1
7
8
2
3
4
5
6

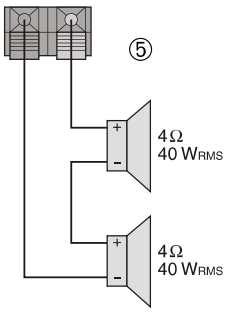
①

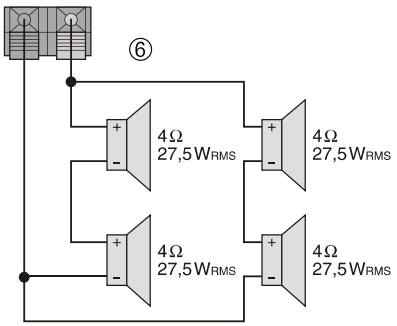

230 V~/50 Hz
450VA
T3.15 AL
+ RIGHT –
– LEFT +
RIGHT
LEFT
GND
SIGNAL
MIN. LOAD 4Ω
OUTPUT
4
3
2
1
L
R
INPUT
9
10
11
14
12
13

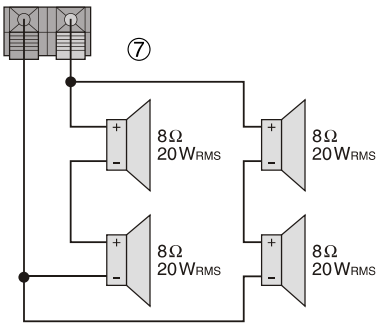
②


③
4Ω, 110WRMS
8Ω, 80WRMS


④
8Ω
55WRMS
8Ω
55WRMS


⑤
4Ω
40 WRMS
4Ω
40 WRMS


⑥
4Ω
27,5WRMS
4Ω
27,5WRMS
4Ω
27,5WRMS
4Ω
27,5WRMS


⑦
8Ω
20WRMS
8Ω
20WRMS
8Ω
20WRMS
8Ω
20WRMS

1 Operating Elements and Connections

1.1 Front panel

1 Input selector switches for selecting one of the four inputs INPUT (12)

2 Controls L-CH and R-CH for the output levels of the left and right channels

3 LEDs CLIP, light up in case of overload

4 LED PROTECT, lights up with the protective circuit activated:
1. in case of a short circuit at a speaker output
2. in case of overheating of the amplifier

5 Power LED ON

6 POWER switch

7 Bass - low frequency can be cut or boosted by this control.

8 Treble - High frequency can be cut or boosted by this control.

1.2 Rear panel

9 Mains cable for connecting 230 V~/50 Hz

10 Fuse holder; replace a burnt-out fuse by one of the same type only

11 Clamping screw for a potential ground connection

12 Speaker terminals OUTPUT (6.3 mm jacks)

13 Input jacks INPUT (phono jacks) for units with line level (e. g. mixer, preamplifier)

14 Speaker terminals OUTPUT (Spring-loaded terminals)

Note :- Connect 4Ω speakers either to spring-Loaded terminals or to the 6.5 mm jacks(12). 8Ω Speakers may be operated simultaneously at the Spring - loaded terminals and at the 6.3 mm jacks.

2 Safety Notes

This unit corresponds to the directive for electromagnetic compatibility 89/336/EEC and to the low voltage directive 73/23/EEC.

The unit is supplied with hazardous mains voltage (230 V~). Leave servicing to skilled personnel only. Inexpert handling may cause an electric shock hazard. Furthermore, any guarantee claim will expire if the unit has been opened.

Always switch off the unit before making or changing any connections.

Please observe the following items in any case:

- The unit is suitable for indoor use only. Protect it against dripping water and splash water, high air humidity, and heat (admissible ambient temperature range 0 – 40 °C).
- Do not place any vessel filled with liquid on the unit, e. g. a drinking glass.
- **Be careful during transport!** Do not seize the unit by the lateral cooling ribs; they are sharp-edged and may cause injuries.
- Do not operate the unit or immediately disconnect the plug from the mains socket
  1. if there is visible damage to the unit or to the mains cable,
  2. if a defect might have occurred after the unit was dropped or suffered a similar accident,
  3. if malfunctions occur.

  In any case the unit must be repaired by skilled personnel.
- A damaged mains cable must be replaced by the manufacturer or authorized, skilled personnel only.
- Never pull the mains cable when disconnecting the mains plug from the socket, always seize the plug.
- For cleaning only use a dry, soft cloth; never use chemicals or water.
- No guarantee claims for the unit or liability for any resulting personal damage or material damage will be accepted if the unit is used for other purposes
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.
- The wires in the mains lead of the power supply unit are coloured in accordance with the following code:
  green/yellow = earth
  blue = neutral
  brown = live

  As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug,

  1. The wire which is coloured **green and yellow** must be connected to the terminal in the plug which is marked with the letter **E** or by the earth symbol ⏚, or coloured **green** or **green and yellow**.
  2. The wire which is coloured **blue** must be connected to the terminal which is marked with the letter **N** or coloured **black**.
  3. The wire which is coloured **brown** must be connected to the terminal which is marked with the letter **L** or coloured **red**.

  Warning - This appliance must be earthed.

3 Applications

This PA stereo amplifier with a peak power of 300 WMAX is specially designed for stage and disco applications. It allows connection of up to four audio units. Via the input selector switches it is possible to select a unit for reproduction.

4 Installation

The amplifier is designed for installation into a rack (482 mm/19"), however, it can also be used as a table-top unit. In any case, air must be allowed to flow past the lateral cooling ribs without obstruction to ensure a sufficient cooling of the amplifier.

4.1 Rack installation

For rack installation, 1 RS (rack space = 44.5 mm) is required. It is recommended to leave additional space above and below the amplifier to ensure a sufficient cooling. In case of insufficient heat dissipation,insert a ventilation unit in to the rack above the amplifier. Otherwise there will be a heat accumulation within the rack which may not only damage the amplifier but also other units in the rack.

To prevent top-heaviness of the rack, the amplifier must be installed in the lower part of the rack. The front panel alone will not suffice for securing the amplifier. An additional base plate must be provided for supporting the unit.

5 Connecting the Amplifier

Always switch off the unit before making any connections!

1) Connect the line outputs of up to four audio units (e. g. preamplifier, mixer) to the phono jacks INPUT (13): white jack = left channel, red jack = right channel.

2) The highest output power is obtained when connecting 4 speakers. However, it is also possible to connect 8 speakers. In this case, the output power will be slightly reduced. The minimum RMS power capability of the speakers must be:

   4 speakers 110 W
   8 speakers 80 W

   Connect the speakers to the 6.3 mm jacks (12) For simultaneous operation of speakers at the 6.3 mm jacks and at the spring loaded terminals , only use speakers of minimum impedance of 8 , otherwise this will result in overload of the amplifier.

   When using the terminals, connect each marked core of the speaker cables to a red terminal.

   Possibilities for connecting several speakers to One channel are shown in figures 4 - 7. When interconnecting several speakers, it is essential to observe the correct positive and negative connections and the minimum total impedance of 4W

3) Finally connect the plug of the mains cable (9) to a mains socket (230 V~/50 Hz).
   Possibilities for connecting several speakers to

6 Operation

6.1 Switching on and off

To prevent loud switching noise, always switch on all other units of the amplifer system before switching on the power amplifier. After operation, switch off the power amplifier first. Prior to switching on the amplifier for the first time, set the controls L-CH and R-CH (2) to the left stop to minimum. Then switch on the amplifier with the switch POWER. The power LED ON (5) lights up as a power indication.

6.2 Input selection

Select the unit desired for reproduction with the switches INPUT SELECT (1). To prevent loud switching noise, only actuate the switches with the volume turned down.

6.3 Level adjustment

Only turn up the controls L-CH and R-CH (2) as necessary until the maximum volume desired is reached. The red LEDs CLIP (3) will indicate overload of the amplifier. In this case, slightly turn back the controls.

Caution!
Never adjust the amplifier to a very high volume. Permanent high volumes may damage your hearing! The human ear will get accustomed to high volumes which do not seem to be that high after some time. Therefore, do not further increase a high volume after getting used to it.

7 Protective Circuit

The protective circuit is provided to prevent damage to the amplifier. If this circuit is activated, the yellow LED PROTECT (4) will light up:

1. in case of a short circuit at a speaker output
2. in case of overheating of the amplifier.

If the yellow LED PROTECT lights up, switch off the amplifier and eliminate the fault.

8 Specifications

RMS output power
stereo 4 : . . . . . 2 x 110 W
stereo 8 : . . . . . 2 x 80 W
Maximum output power: . . . 300 W
Inputs: . . . . . 0.775 V/10 kΩ
Frequency range: . . . . . 20 – 20 000 Hz
Equalizer. . . . . Bass ± 10dB @ 100 Hz
. . . . . Treble ± 10dB @ 100 Hz
S/N ratio: . . . . . > 70 dB
Crosstalk attenuation: . . . . . > 50 dB
THD: . . . . . < 0.5 %
Power supply: . . . . . 230 V~/50 Hz
Power consumption: . . . . . 450 VA
Ambient temperature: . . . . . 0 – 40 °C
Dimensions (W x H x D): . . 482 x 44.5 x 285 mm, 1 RS (rack space)
Weight: . . . . . 7.2 kg

According to the manufacturer.
Subject to technical modification.

CE

Do not attempt to make any repairs yourself. This would invalid your warranty.
Do not make any changes to the unit. This would also invalid your warranty.
The warranty is not applicable in case of accidents or damages caused by inappropriate use or disrespect of the warnings contained in this manual.***Studiomaster*** can not be held responsible for personal injuries caused by a disrespect of the safety recommendations and warnings. This is also applicable to all damages in whatever form.

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E-mail: marketing@uplbin.com

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